wheelock
THE SIGNAL SOURCE℠
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STROBE SIGNALS
INSTALLATION INSTRUCTIONS

GENERAL:

Strobe Signals offer maximum reliability and efficiency for effective visible signalling in fire and life safety applications. A Xenon flashtube with solid state circuitry enclosed in a rugged Lexan® lens eliminates the delicate filaments used in incandescent light signals and provides significantly greater light intensity with lower current requirements. Strobe Signals are available with light output of 1.5cd (12,000cp), 15cd (70,000cp) or 117cd. Models are available with single gang or weather resistant plates in addition to the 4" square backbox plate (See Mounting Options).

SPECIFICATIONS:

MODEL NUMBERS *			INPUT VOLTAGE	INPUT CURRENT (AMPS)	INTENSITY RATING	
4" SQUARE (C)	SINGLE GANG (D)	SURFACE (A,B)			CANDLE POWER	UL 1638 CANDELA
WST-12	WSIT-12	WS3T-12	12VDC	0.050	12,000cp	1.5cd
WST-24	WS1T-24	WS3T-24	18-31VDC (24VDC)	0.025	12,000cp	1.5cd
WST-115	WSIT-115	WS3T-115	115VAC	0.018	12,000cp	1.5cd
WHT-12	WH1T-12	WH3T-12	12VDC	0.150	70,000cp	15.0cd
WHT-24	WH1T-24	WH3T-24	18-31VDC (24VDC)	0.075	70,000cp	15.0cd
WHT-115	WH1T-115	WH3T-115	115VAC	0.060	70,000cp	15.0cd
WMT-24	WM1T-24	WM3T-24	18-31VDC (24VDC)	0.088	------	117.0cd

* See Mounting Options

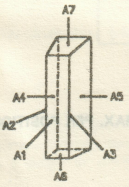
At -35 degrees C the following UL minimum candela ratings apply:

117cd models = 78cd

1.5cd models = 0.75cd

15cd models = 7.5cd

W in model number indicates white or clear lens. Substitute R for optional red lens. Derate intensity by 60% for red lens (does not apply to WM models).



MODEL VOLTAGE	RATED CANDELA	CANDELA AT VARIOUS ANGLES PER UL 1638					
		A1	A2	A3	A4	A5	A6/A7
12VDC	1.5cd	1.5	1.7	1.2	1.4	0.5	0.0
18-31VDC (24VDC)	1.5cd	1.5	1.7	1.2	1.6	0.7	0.1
115VAC	1.5cd	1.5	1.5	1.3	1.3	0.7	0.1
12VDC	15.0cd	15.0	16.8	14.4	14.6	6.9	0.6
18-31VDC (24VDC)	15.0cd	15.0	18.8	13.7	15.6	7.4	0.9
115VAC	15.0cd	15.0	18.0	14.6	17.7	8.4	0.8
18-31VDC (24VDC)	117.0cd	117.0	15.2	16.4	6.0	7.0	1.2

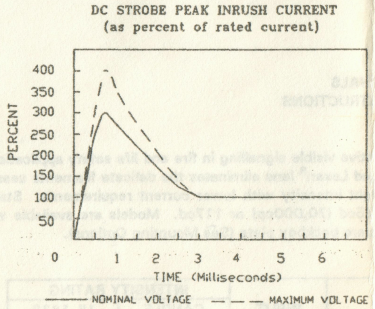


FIGURE 1.

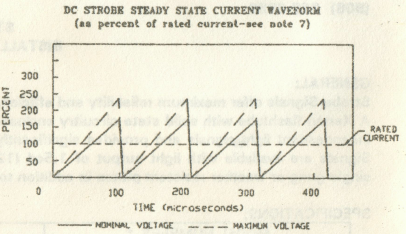
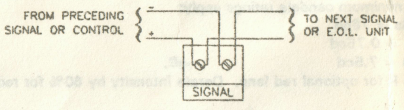


FIGURE 2.



WIRING DIAGRAM

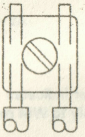
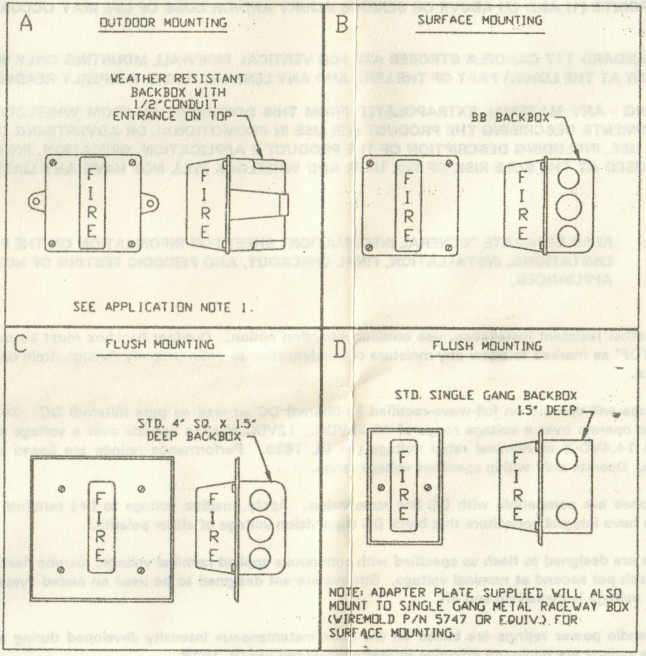


FIGURE 3.

NOTE: DO NOT PIG TAIL OR WRAP WIRES AROUND SCREWS. ONLY 2 WIRES - 12 AWG MAX. PER POSITION ARE ALLOWED. SEE FIGURE 3.

MOUNTING OPTIONS



APPLICATION NOTES

⚠ **WARNING - INSTALLATION OF WHEELOCK 117 CANDELA STROBE PRODUCTS IN SLEEPING AREAS SHOULD BE WALL MOUNTED AS FOLLOWS: (1) THE ON-AXIS (DIRECTLY IN FRONT OF LENS) LIGHT OUTPUT SHOULD BE DIRECTED AT THE EYE-LIDS OF THE SLEEPING PERSON, E.G. PILLOW END OF BED, BED HEAD; (2) NO PART OF THE BED SHALL BE MORE THAN SIXTEEN (16) FEET FROM THE STROBE NOTIFICATION APPLIANCE. INSTALLERS MUST ADVISE OWNERS AND OPERATORS OF BUILDINGS WITH SLEEPING OCCUPANTS, E.G. HOTELS AND MOTELS, TO WARN GUESTS, RESIDENTS AND EMPLOYEES TO NOT MOVE THE BED LOCATION TO A POSITION VIOLATING POINTS (1) AND (2) ABOVE OR SERIOUS INJURY AND/OR LOSS OF LIFE MAY OCCUR DURING A FIRE EMERGENCY.**

⚠ **ALL STANDARD 117 CANDELA STROBES ARE FOR VERTICAL SIDEWALL MOUNTING ONLY WITH THE CLEAR LENS WINDOW AT THE LOWER PART OF THE LENS AND ANY LENS LETTERING PROPERLY READING VERTICALLY.**

⚠ **WARNING - ANY MATERIAL EXTRAPOLATED FROM THIS DOCUMENT OR FROM WHEELOCK MANUALS OR OTHER DOCUMENTS DESCRIBING THE PRODUCT FOR USE IN PROMOTIONAL OR ADVERTISING CLAIMS, OR FOR ANY OTHER USE, INCLUDING DESCRIPTION OF THE PRODUCT'S APPLICATION, OPERATION, INSTALLATION AND TESTING IS USED AT THE SOLE RISK OF THE USER AND WHEELOCK WILL NOT HAVE ANY LIABILITY FOR SUCH USE.**

IMPORTANT: READ SEPARATE "GENERAL INFORMATION" SHEET FOR INFORMATION ON THE PLACEMENT, LIMITATIONS, INSTALLATION, FINAL CHECKOUT, AND PERIODIC TESTING OF NOTIFICATION APPLIANCES.

1. For weather resistant installation, use outdoor mounting option. Outdoor backbox must be mounted vertically with "TOP" as marked to allow any moisture or condensation to drain properly through drain holes on bottom of backbox.

2. DC strobe will operate on full-wave-rectified (unfiltered) DC as well as pure (filtered) DC. 24VDC strobes are listed to operate over a voltage range of 18-31VDC. 12VDC strobes operate over a voltage range of +/-20% (9.6 to 14.4VDC) of nominal rated voltage per UL 1638. Performance ratings are based on nominal input voltage. Operate only within specified voltage range.

3. DC strobes are compatible with DC line supervision. Apply positive voltage to (+) terminal to operate. AC strobes have integral capacitors that block DC supervision voltage of either polarity.

4. Strobes are designed to flash as specified with continuous applied nominal voltage. Strobe flash rate is designed for 1 flash per second at nominal voltage. Strobes are not designed to be used on coded systems in which the applied voltage is cycled on and off.

5. Peak candle power ratings are based on the peak instantaneous intensity developed during each flash cycle. Candela ratings are minimum effective intensity measured per UL 1638.

6. Conduit entrance to backboxes should be selected to insure sufficient wiring clearance.

7. DC strobes have a brief inrush current during initial start-up. Refer to Figure 1 for peak inrush current waveform. Circuit fuses must be rated to handle this inrush. Inrush current limitation will not prevent start-up. Power supply ratings can be based on the rated (steady state) current of the strobes. Refer to Figure 2 for steady state current waveform.